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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,876		08/06/2003	Hideki Iwata	1713.1008	8217
21171	7590	06/07/2006		EXAMINER	
STAAS & I	HALSE'	Y LLP	ROJAS, BERNARD		
SUITE 700 1201 NEW Y	YORK A	VENUE, N.W.		ART UNIT	PAPER NUMBER
WASHINGT				2832	
				DATE MAILED: 06/07/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/634,876	IWATA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Bernard Rojas	2832	
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet wi	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communice. - If NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, I Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a re ation. y period will apply and will expire SIX (6) MON by statute, cause the application to become AB.	CATION. ply be timely filed ITHS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed of the second of the s	☑ This action is non-final. allowance except for formal matte	•	is
Disposition of Claims	, ,		
4) Claim(s) 1,4-11,15,18,22,24,26,27,30-3 4a) Of the above claim(s) is/are w 5) Claim(s) is/are allowed. 6) Claim(s) 1,6-11,22 and 40 is/are rejecte 7) Claim(s) 4,5,15,18,24,26,27,30-38,43,4 8) Claim(s) are subject to restriction Application Papers 9) The specification is objected to by the Example of the specification of the specification is objected to by the Example of the specification of the specificati	vithdrawn from consideration. d. 4 and 46 is/are objected to. and/or election requirement. caminer. accepted or b) objected to lead to the drawing(s) be held in abeyan	by the Examiner. ce. See 37 CFR 1.85(a).	1(d).
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for the angle All b) Some * c) None of: 1. Certified copies of the priority documents of the priority documents of the priority documents of the certified copies of the application from the International * See the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the priority documents of the certified copies of the certified copies of the certified copies of the certified copies of the application from the linear the certified copies of the certified copies of the application from the linear the certified copies of the certified copies of the application from the linear the certified copies of the certified copies of the application from the linear the certified copies of the certified copies of the certified copies of the application from the linear the certified copies of the certified copie	cuments have been received. cuments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s) 1) ⊠ Notice of References Cited (PTO-892) 2) □ Notice of Draftsperson's Patent Drawing Review (PTO-13) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 05092006 12302005.	948) Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152) 52003.	

Application/Control Number: 10/634,876

Art Unit: 2832

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention I – Embodiment I, figures 1-3 and 6A-6C, in the reply filed on 03/13/2006 is acknowledged.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the movable portion and the fame having an identical thickness [Claim 46] must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 recites the limitation "the substrate" in line 1 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the substrate" in line 1 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "the substrate" in line 1 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 6-11, 22, and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Seki et al. (US 6,734,513).

Claim 1, Seki et al. discloses a micro-relay comprising: a first substrate [10] having stationary contacts [14b, 15b] and a stationary electrode [11]; a second substrate [40] arranged so as to face the first substrate; and a movable plate [20] arranged between the first and second substrates, the movable plate having a frame [22, 23, 30] and a movable portion, the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure [Fig. 4], the movable portion having a movable electrode [24] facing the stationary electrode, and a movable contact [28] facing the stationary contacts, the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode [Col. 6, lines 35-45].

Claim 6, as best understood, Seki et al. discloses the micro-relay as claimed in claim 1, wherein the substrate has through holes via which interconnection lines extending from the first substrate are extracted to an outside of the micro-relay [Fig. 4].

Claim 7, as best understood, Seki et al. discloses the micro-relay as claimed in claim 1, wherein the substrate has through holes via which interconnection lines extending from the movable plate are extracted to an outside of the micro-relay [Fig. 4].

Claim 8, as best understood, Seki et al. discloses the micro-relay as claimed in claim 1, wherein interconnection lines extending from the first substrate to an outside of the micro-relay are flush with a surface of the first substrate [Fig. 4].

Claim 9, Seki et al. discloses the micro-relay as claimed in claim 1, wherein the movable portion is coupled to the frame by elastically deformable members [23].

Claim 10, Seki et al. discloses the micro-relay as claimed in claim 1, wherein the movable portion is coupled to the frame by hinge springs [23].

Claim 11, Seki et al. discloses the micro-relay as claimed in claim 1, wherein the movable portion is coupled to the frame by hinge springs arranged symmetrically [23, Fig. 3].

Claim 22, Seki et al. discloses the micro-relay as claimed in claim 1, wherein the second substrate has a flat plate shape [Fig. 4].

Claim 40, Seki et al. discloses the micro-relay as claimed in claim 1, wherein the frame has a thickness that defines spaces between the movable plate and the first stationary contact and between the movable plate and the second stationary contact [Fig. 4].

Allowable Subject Matter

Claims 4, 5, 15, 18, 24, 26, 27, 30-38, 43, 44, 46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Rojas whose telephone number is (571) 272-1998. The examiner can normally be reached on M-F 8-4:00), every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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